

DATA NAME: DRG

COVERAGE AREA: Statewide

LOCATION: /gisraster/drg

DATA DESCRIPTION:

Digital Raster Graphics are PackBit-compressed, trimmed, tiff images of USGS 7.5 minute quadrangle maps. There are 2,851 images covering the entire state of California. DRGs were created by Teale Data Center. These DRGs have in turn been trimmed to the map neat line and reprojected by Caltrans Office of GIS to Albers NAD83 projection.

VITAL STATISTICS:

Resolution:	400 d.p.i., approximately 1.5 meters per pixel
Projection:	Albers
Units:	Meters
1st Std. Parallel:	34 00 00 (34.0 degrees N)
2nd Std. Parallel:	40 30 00 (40.5 degrees N)
Longitude of Origin:	-120 00 00 (120.0 degrees W)
Latitude of Origin:	00 00 00 (0.0 degrees)
False Easting (X shift):	0
False Northing (Y shift):	-4,000,000
Datum:	NAD 83
Spheroid:	Clarke 1866
Source:	U.S.G.S.
Source Media:	Map sheets
Source Projection:	vary
Source Units:	Meters
Source Scale:	1:24,000, 11 DRGs are 1:25,000
Capture Method:	Scanned
Conversion Software:	ARC/INFO rev. 7.2.1
Data Structure:	Raster
Size of DRGs:	Range 2 - 40 MB, 13 MB on average per image 40 Gigabytes statewide
Use limitation:	None - public domain data
Data Updated:	December 1998

FILE NAMES

There are 64 DRGs in each 1 degree block of longitude and latitude, filling 8 rows and 8 columns, except for incomplete blocks along the state boundary. DRG files are named according to USGS 'ocode' designation.

example: t35116a7.tif
35 degree of latitude
116 degree of longitude
a row (a-h south to north)
7 column (1-8 east to west)

Some quad maps of islands and coastal areas are irregularly sized and/or positioned. File names for these images are determined by which quad their south east corner falls in. In three instances this creates a discrepancy with the USGS code:

Filename	Map Name	USGS ocode
t40124a2	SHUBRICK PEAK	o40124b2
t33118f2	LONG BEACH	o33118g2
t33118d8	SANTA BARBARA ISLAND	o33119d1

TFW FILES

Each DRG has an accompanying 'world' file with the same file name, but with a .tfw extension, that contains geo-referencing information:

example: t35116a7.tfw

1.52786215012960 pixel size (meters)
0.0000000000000000 rotation factor
0.0000000000000000 rotation factor
-1.52786215012960 pixel size
284543.57694197021192 image min x (meters) (NW
-316411.17369714472443 image max y (meters) Corner)

The min x and min y coordinates relate to the image itself, and not the latitude longitude values at the map corner. Coordinates are in albers projection.

COLORS

Colors on the DRGs have been normalized to 13 RGB values:

0 0 0	black
255 255 255	white
91 159 230	dark blue
230 45 30	red
162 96 71	dark brown
210 255 177	green
197 101 197	dark magenta

255	240	0	yellow
202	225	245	light blue
255	202	197	light red
250	202	250	light magenta
230	230	230	light grey
222	167	146	light brown

DRG.DBF - dbase file that contains metadata for each quad. This file is found at
/gisraster/drg/drg.dbf

DRG.DBF fields:

COL	ITEM NAME	WIDTH	OPUT	TYP	N.DEC
1	FILENAME	8	8	C	-
9	MAPNAME	30	30	C	-
39	MAPNAME25	20	20	C	-
59	CD	3	3	C	-
62	FILESIZE	2	2	I	-
64	MAPSCALE	8	8	C	-
72	FORMAT	20	20	C	-
92	REF_CODE	25	25	C	-
117	YEAR	4	4	C	-
121	YRORIGMAP	4	4	C	-
125	YRREVISION	4	4	C	-
129	YRAIRPHOTO	4	4	C	-
133	YRFIELDCK	4	4	C	-
137	YRPHTOTOPO	4	4	C	-
141	YRREVSOURC	4	4	C	-
145	YRPHTOINSP	4	4	C	-
149	LIBUPDATE	8	8	C	-
157	SOUTH	8	10	F	5
165	NORTH	8	10	F	5
173	EAST	8	10	F	5
181	WEST	8	10	F	5
189	SE_COR_LON	9	9	C	-
198	SE_COR_LAT	9	9	C	-
207	CONTOURINT	10	10	C	-
217	CONINTRMIT	10	10	C	-
227	VERT_DATUM	15	15	C	-
242	STATE1	2	2	C	-
244	STATE2	2	2	C	-
246	TYPE	1	1	C	-
247	PROJECTION	80	80	C	-

FILENAME	USGS coding convention for 7.5 X 7.5 minute quads.
MAPNAME	Name of 7.5 X 7.5 minute quad map
MAPNAME25	Name of 1:25,000 scale, 7.5 X 15 minute quad map (see note below)
CD	CD number - index to which CD the image is on #32A and #32B replace #32 due to increased file size of updated DRGs
FILESIZE	Approximate size of tiff image file in megabytes. Trimmed version images are about 10% smaller than untrimmed.
MAPSCALE	Scale of scanned map
FORMAT	Dimension in Minutes of map, N-S X E-W
REF_CODE	USGS reference code
YEAR	Most recent year that appears on the map.
YRORIGMAP	Year of original map
YRREVISION	Year of map revision
YRAIRPHOTO	Year of aerial photography used for revision
YRFIELDCK	Year of field check
YRPHTOTOPO	Year of aerial photography used for topography base
YRREVSOURC	Year of source data for revision
YRPHTOINSP	Year of photo inspection
LIBUPDATE	Date (YYYYMMDD) of updated image replacement in Teale library
SOUTH	Southern extent of map area, decimal degrees

NORTH	Northern extent of map area, decimal degrees
EAST	Eastern extent of map area, decimal degrees
WEST	Western extent of map area, decimal degrees
	(SOUTH, NORTH, EAST and WEST are used for trimming DRGs to their neatline, or in the case of irregular DRGs, to the outer extent of the map area.
SE_COR_LON	Longitude at south-east corner, degrees minutes seconds
SE_COR_LAT	Latitude at south-east corner, degrees minutes seconds
CONTOURINT	Contour interval
CONINTRMIT	Intermittant contour interval
VERT_DATUM	Vertical Datum
STATE1	State primarily covered in the image
STATE2	State secondarily covered in the image
TYPE	Type (size) of map, to identify non-standard size maps
	S Standard 7.5 X 7.5 Minute
	T Tall >7.5 X 7.5 Minute
	W Wide 7.5 X >7.5 Minute
	O Oversize >7.5 X >7.5 Minute
	2 Double 7.5 X 15.0 Minute
	I Island vary
PROJECTION	Projection of map sheet
NOTES	Notations

1:25,000 SCALE 7.5' x 15' USGS TOPO MAPS

21 DRGs are images of 1:25,000 scale 7.5' x 15' USGS topo maps. These USGS products were created in place of the 1:24,000 7.5 minute format in limited areas of the United States, and each map sheet covers an area equivalent to two adjacent 1:24,000 quads. These maps occur in portions of Trinity, Shasta and Tehama counties, and one area on the California-Nevada border. These DRGs are named according to their 1:24,000 map name. For example, ONO EAST (o40122d5) and ONO WEST (o40122d6) are identical images of the ONO 7.5 X 15 Minute map.

FILENAME	1:24,000 MAP NAME	1:25,000 MAP NAME
o39119h8	SEVEN LAKES MOUNTAIN	DOGSKIN MTN
o40122a7	SOUTH YOLLA BOLLY MOUNTAINS	SOUTH YOLLA BOLLY
o40122a8	SOLOMON PEAK	SOUTH YOLLA BOLLY
o40122b7	TOMHEAD MOUNTAIN	NORTH YOLLA BOLLY
o40122b8	NORTH YOLLA BOLLY	NORTH YOLLA BOLLY
o40122c5	CHICKABALLY MTN EAST	CHICKABALLY MTN
o40122c6	CHICKABALLY MTN WEST	CHICKABALLY MTN
o40122c7	BEEGUM	BEEGUM
o40122c8	PLATINA	BEEGUM
o40122d5	ONO EAST	ONO
o40122d6	ONO WEST	ONO
o40122d7	ARBUCKLE MOUNTAIN	CHANCELULLA PEAK
o40122d8	CHANCELULLA PEAK	CHANCELULLA PEAK
o40123a1	WRIGHTS RIDGE	FOUR CORNERS ROCK
o40123a2	FOUR CORNERS ROCK	FOUR CORNERS ROCK
o40123b1	BLACK ROCK MOUNTAIN	BLACK ROCK MTN
o40123b2	SWIM RIDGE	BLACK ROCK MTN
o40123c1	PONY BUCK PEAK	PONY BUCK PEAK
o40123c2	SMOKY CREEK	PONY BUCK PEAK
o40123d1	WILDWOOD	DUBAKELLA MTN
o40123d2	DUBAKELLA MOUNTAIN	DUBAKELLA MTN

DATA CONTACT:

Contact Name: Roger Ewers
Contact's Phone: 916-657-1601

DOCUMENTATION DATE: 12/15/1998, 3/23/99, 5/8/00, 8/21/01